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RadioShack®
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Voice Activated Microcassette Recorder

Owner's Manual
Please read before using this equipment.

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❒ Features

Your RadioShack Voice Activated Microcassette Recorder is ideal for quick note-taking. Its ultra-small size makes it easy to slip into a pocket, briefcase, or purse. You can use it at school, at business conferences, for dictation in the office, or anywhere on the go! You can record manually or set the recorder so sound activates recording.

Your recorder includes these features:

Voice-Activated Recording (VOX) — lets you set the recorder so it records when it picks up sound and stops a few seconds after the sound stops.

Tape Counter with Reset Button — lets you note the locations of certain sections of tape so you can easily return to them.

Quick Review — lets you stop recording to review a portion of recorded tape without first stopping.

Quick Record — lets you instantly stop playback and begin recording.

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Tape Speed Switch — lets you record and play back a tape at a slower speed (which provides twice the recording/playback time) or at normal speed (for better sound quality.

Fast Play — lets you play a tape back at about 25% faster than normal speed, to save time when listening to a tape.

Built-In Microphone and Speaker — lets you record and play back notes anywhere.

External Microphone Jack — lets you use an external, wide-range microphone.

Auto Stop — stops the recorder automatically when a tape reaches its end during recording or playback.

Earphone Jack — lets you use an optional earphone for private listening.

Automatic Level Control (ALC) Circuit — automatically sets the recording level.

Three Power Options — you can power the recorder from standard AC power using an optional AC adapter, two AA batteries (not supplied), or a vehicle's battery using an optional DC adapter.

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❒ Preparation

CONNECTING POWER

Using Batteries

You can power your recorder from two AA batteries (not supplied). For the best performance and longest life, we recommend RadioShack alkaline batteries.

Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

1. Slide the battery compartment cover in the direction of the arrow, then lift off the cover.
2. Place the batteries in the compartment as indicated by the polarity symbols (+ and –) marked inside.
3. Replace the cover.

When the RECORD/BATTERY indicator lights dimly or not at all or the recorder stops operating properly, replace the batteries.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

Caution: If you do not plan to use the recorder with batteries for several days, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Using AC or DC Power

You can power the recorder using a 3V, regulated 300 mA AC or DC adapter and a size H Adaptaplug™ connector (neither supplied). Both are available at your local RadioShack store.

Cautions:

You must use a (Class 2) power source that supplies 3V DC and delivers at least 300 mA. Its center tip must be set to positive and its plug must fit the recorder's **DC 3V** jack. Using an adapter that does not meet these

specifications could damage the recorder or the adapter.

- Always connect the adapter to the recorder before you connect it to a power source. When you finish, disconnect the adapter from the power source before you disconnect it from the recorder.

1. Set the AC or DC adapter's voltage switch to 3V, if necessary.
2. Connect the Adaptaplug to the AC or DC adapter's cord so the tip reads TIP+.
3. Insert the barrel plug into the recorder's **DC 3V** jack. This disconnects internal batteries.
4. Depending on the type of adapter you are using, plug the other end of the adapter into a standard AC outlet or a 12V power source.

CONNECTING AN EARPHONE

You can use an optional mono earphone with a 1/8-inch (3.5-mm) plug to listen to a tape privately.

Note: You can also use an earphone to monitor what the recorder picks up through the internal (or external) microphone when recording. Your local RadioShack store carries a wide selection of earphones.

Insert the earphone's plug into the recorder's **EAR** jack. The internal speaker automatically disconnects.

LISTENING SAFELY

To protect your hearing, follow these guidelines when you use an earphone.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

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TRAFFIC SAFETY

Do not wear an earphone while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.

Even though some earphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

CONNECTING AN EXTERNAL MICROPHONE

You can use an optional microphone with a $^1/_8$-inch (3.5-mm) plug to extend the recording range. Your local RadioShack store carries a wide selection of microphones.

Insert the microphone's plug into the recorder's **MIC** jack. The built-in microphone automatically disconnects.

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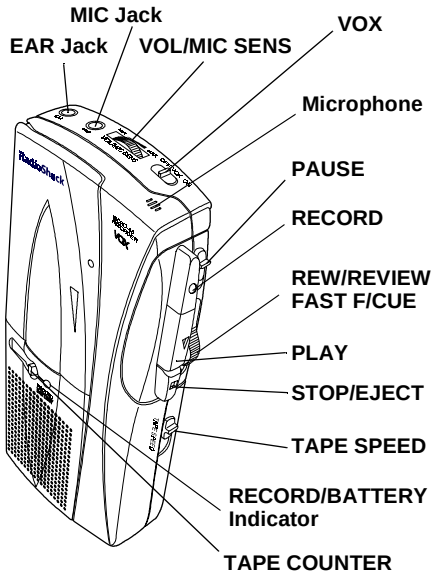
❒ *Operation*

A QUICK LOOK AT THE RECORDER'S CONTROLS



LOADING A MICROCASSETTE TAPE

Note: We recommend normal bias MC-60 microcassette tapes for up to 2 hours of

recording/playback time, or MC-90 microcassette tapes for up to 3 hours of recording/playback time. We do not recommend long-playing microcassette tapes such as MC-120s, because they are extremely thin and can easily tangle in the playback mechanism.

Follow these steps to load a microcassette tape.

1. Use a pencil to turn the cassette's hub and remove any tape slack. Avoid touching the tape.
2. Press **STOP/EJECT**. The cassette compartment door opens.
3. Insert the microcassette into the door's guides with the tape's open edge facing out and the full reel positioned toward the top of the recorder.
4. Close the door.

RECORDING

Cautions:

- Do not change the tape speed while recording.

- Do not force down **RECORD** when a cassette erase-protection tab is not in place. (See “Preventing Accidental Erasure” on Page 18.)

You can record manually or use VOX (voice-activated) recording. When you use VOX, recording begins when the recorder picks up sound and stops a few seconds after the sound stops.

1. Load a tape.
2. Set **TAPE SPEED** as follows:
   - To double the tape’s recording/playback time, set **TAPE SPEED** to **1.2**. This setting allows 120 minutes of total recording/playback time on an MC-60 tape, or 180 minutes on an MC-90 tape.
   - For better sound quality, set **TAPE SPEED** to **2.4** (**NORMAL** or **FAST PLAY**). This setting allows 60 minutes of total recording/playback time on an MC-60 tape, or 90 minutes on an MC-90 tape.
3. *To manually start and stop recording*, set **VOX** to **OFF**.

To use voice-activated recording, set **VOX** to **ON**. To adjust MIC sensitivity, adjust **VOL/MIC SENS** as desired.

Set **TAPE SPEED** according to the following chart for the desired results:

Set Playback To	**Tape Plays**
Recording At 1.2 cm/s	
1.2	same speed
2.4 NORMAL	twice as fast
2.4 Fast Play	two and one half times as fast
Recording At 2.4 cm/s	
1.2	half as fast
2.4 NORMAL	same speed
2.4 Fast Play	one fourth as fast
Recording At Fast Play	
1.2	half as fast
2.4 NORMAL	same speed
2.4 Fast Play	one fourth as fast

4. Press **RECORD** to begin recording. Both **RECORD** and **PLAY** lock down, and the RECORD/BATTERY indicator lights.

Notes:

- The **VOL/MIC SENS** setting determines the sound level that activates the VOX circuit and starts recording. At higher settings, a softer sound starts VOX recording. At lower settings, a louder sound starts VOX recording.
- The built-in automatic level control (ALC) automatically sets the recording level once recording starts.
- When you use the VOX feature, recording begins when the recorder picks up sound and stops a few seconds after the sound stops.
- For maximum clarity, place the recorder as close to the sound source as possible, with nothing between the source and the recorder that might block the sound.

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5. To temporarily stop recording, slide **PAUSE** away from **OFF**. To resume recording, slide **PAUSE** to **OFF**.

6. Recording stops when the tape reaches its end. To stop it sooner, press **STOP/EJECT**.

Using Quick Record

During playback, you can press **RECORD** to immediately start recording without pressing **STOP/EJECT** first.

PLAYING A TAPE

1. Load a microcassette tape.

2. Set **TAPE SPEED** to the speed used when the tape was recorded.

   To listen to the tape at about 25% faster than normal speed, slide **TAPE SPEED** to **2.4 FAST PLAY**.

3. Press **PLAY** to begin play.

4. Adjust **VOL/MIC SENS** to the desired listening level.

5. The tape automatically stops when it reaches its end. Press **STOP/EJECT** to stop playback sooner.

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Rewinding/Fast-Forwarding

Slide **REW/REVIEW FAST-F/CUE** to **REW/ REVIEW** to rewind a tape, or to **FAST-F/ CUE** to fast-forward a tape.

Caution: To protect the tape-handling parts, press **STOP/EJECT** or slide **REW/RE-VIEW FAST-F/CUE** to the center when the tape reaches its end.

To hear the tape play at a faster speed, slide **REW/REVIEW FAST-F/CUE** to **REW/ REVIEW** or **FAST-F/CUE** during playback. Set the switch back to the center to resume normal playback.

QUICK REVIEW

During recording, slide **REW/REVIEW FAST-F/CUE** to **REW/REVIEW** to hear a portion of what you have just recorded (without first pressing **STOP/EJECT** then **PLAY**). Press **RECORD** to resume recording.

USING THE TAPE COUNTER

You can use the tape counter to note different locations on your tape during recording or playback.

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Before playing or recording a tape, rewind the tape completely and press the counter reset button to set the counter to **000**. As the tape moves, the counter advances.

❒ *Tape Tips*

STORING CASSETTE TAPES

Do not expose microcassette tapes to high temperatures, high humidity, dust or dirt, or motors, transformers, or other sources of strong magnetic fields.

RESTORING TAPE TENSION AND SOUND QUALITY

After you play a microcassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.

Caution: Be careful not to damage the microcassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

ERASING TAPES

To record over a microcassette tape, simply record as usual. The tape recorder records over the previous recording.

You can quickly erase both sides of a cassette tape using a bulk tape eraser.

Preventing Accidental Erasure

Microcassette tapes have two erase-protection tabs — one for each side. When a tab is in place, you can record on that side.

To prevent accidental erasure of a tape recording, use a screwdriver to remove one or both of the cassette tape's erase protection tabs. This prevents **RECORD** from being pressed.

If you later decide to record on a tape side after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole. Be sure you cover only

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the hole originally covered by the erase-protection tab.

Caution: Removing the erase-protection tabs does not prevent a bulk eraser from erasing a microcassette tape.

CLEANING THE TAPE-HANDLING PARTS

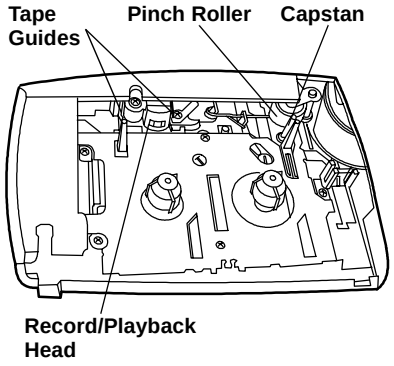
Dirt, dust or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the recorder. After every 20 hours of tape player operation, follow these steps to clean the tape-handling parts.

1. Remove the batteries and disconnect any other power source.

2. Open the cassette compartment door and press **PLAY** to expose the tape-handling parts.

3. Use a cotton swab dipped in tape head cleaning solution or denatured alcohol to gently clean the record/

playback head, pinch roller, capstan and tape guides.



4. Press **STOP/EJECT** to release the tape-handling parts. Then close the cassette compartment cover and reconnect power.

Note: For easier cleaning, you can use a microcassette cleaner kit, which includes a special cleaning cassette. Your local RadioShack store carries a full line of cassette recorder cleaning supplies.

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❒ Care

To enjoy your RadioShack Voice Activated Microcassette Recorder for a long time:

- Keep the recorder dry. If it gets wet, wipe it dry immediately.
- Use and store the recorder only in normal temperature environments.
- Handle the recorder gently and carefully. Do not drop it.
- Keep the recorder away from dust and dirt.
- Wipe the recorder with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the recorder's internal components can cause a malfunction and might invalidate its warranty. If your recorder is not performing as it should, take it to your local RadioShack store for assistance.

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❒ Specifications

Tape Type ..... Microcassette

Tracks ..... 2 tracks, 1 Channel Monaural

Drive System ..... Capstan Drive

Tape Speed ..... 2.4 cm/sec ($^{15}/_{16}$ ips)
and 1.2 cm/sec ($^{15}/_{32}$ ips)

Recording Time (with MC-60 Microcassette):

2.4 cm/sec ..... 30 min per side

1.2 cm/sec ..... 60 min per side

Power Output ..... 180 mW

Frequency Response ..... 400–4,000 Hz
at 2.4 cm/sec

Power Sources:

Internal batteries ..... 3V DC 2 AA batteries

AC Power 120V
with optional regulated AC Adapter

DC Power ..... 12V DC
with optional DC Adapter

Dimensions (HWD) ..... $4^{15}/_{16} \times 2^{7}/_{16} \times 1$ in
($126 \times 62 \times 26$ mm)

Typical Cassette Recording Time

(with alkaline batteries) ..... 18 hours

Weight (without batteries) ..... 4.55 oz
(129g)

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Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

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Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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